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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/847,667	05/01/2001	Subhash Gupta	54364	4777	
7590 06/30/2004			EXAMINER		
The Law Offices of Calvin B. Ward			MITCHELL, JAMES M		
Suite 305 18 Crow Canyon Court			ART UNIT	PAPER NUMBER	
San Ramon, CA 94583			2827		
			DATE MAILED: 06/30/2004	DATE MAILED: 06/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		09/847,667	GUPTA ET AL.	
		Examiner	Art Unit	
		James M. Mitchell	2827	
Peri d fo	The MAILING DATE of this communication a or Reply	ppears on the cover she t	with the correspondence addre)SS
A SH THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may ply within the statutory minimum of d will apply and will expire SIX (6) No ute, cause the application to become	a reply be timely filed thirty (30) days will be considered timely. ONTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133).	nunication.
Status				
2a)⊠	Responsive to communication(s) filed on 12. This action is FINAL. 2b) The Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal m	• •	erits is
Dispositi	on of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-10 and 17 is/are pending in the appearance of the above claim(s) is/are withdred claim(s) is/are allowed. Claim(s) 1-10 and 17 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	rawn from consideration.		***
Applicati	on Papers			
10)	The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a specificant may not request that any objection to the Replacement drawing sheet(s) including the corresponding to the oath or declaration is objected to by the left.	ccepted or b) objected the drawing(s) be held in abe- the drawing if the drawing	vance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR	` '
Priority u	ınder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure see the attached detailed Office action for a list	nts have been received. nts have been received ir iority documents have be au (PCT Rule 17.2(a)).	Application No en received in this National Sta	age
2) Notice Notice Notice Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-15	52)

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "integrated circuits elements constructed thereon [first surface of substrate], and extending a maximum distance... into said substrate," and "vias extending... greater than said maximum distance..." must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-10 and 17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. there is no support for "integrated circuits elements constructed thereon, and extending ... into said substrate". The specification

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indicates [i.e. claim 1] that the vias extend into the substrate with the integrated circuit elements being formed on a first surface of the substrate.

Allowable Subject Matter

Claims 1-10 and 17 would be allowable if it overcame the rejection(s) under 35 U.S.C. 112, first paragraph, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not disclose or make obvious a substrate having a first and second surfaces wherein all of integrated circuit elements are on the first surface and extend in said substrate a maximum distance with a plurality of vias having a bottom with a stop layer, extending a distance from the first surface into the substrate, such that the vias' distance is greater than said maximum distance, including all the limitations of the independent claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Mitchell whose telephone number is (571) 272-1931. The examiner can normally be reached on M-F 10:30-8:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 21, 2004

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